sumption totalled approximately 1.9 billion kilowatt hours. More than 99 per cent of the electricity generated in Manitoba is produced from water power.

Manitoba Hydro generates electric power from 11 hydraulic stations, two thermal stations, and 20 diesel stations. Four of the hydraulic stations are on the Winnipeg River about 100 km northeast of Winnipeg, and the others are north of the 53rd parallel: one is at Grand Rapids on the Saskatchewan River 417 km northwest of Winnipeg; four are on the Nelson River at sites known as Jenpeg, Kelsey, Kettle and Long Spruce, ranging in distance from 519 to 745 km northeast of Winnipeg; and there are two small plants on the Laurie River 745 km northwest of Winnipeg. The two thermal plants, used mainly to meet peak demands, are located in Brandon and Selkirk. The 20 diesel stations are in isolated communities in northern Manitoba.

The installed generating capacity for all Manitoba Hydro's stations is 3.9 million kilowatts. Projected development of the Nelson system will yield an additional 6.1 million kilowatts.

Winnipeg Hydro operates two hydro-electric generating stations on the Winnipeg River, with a total capacity of 140,000 kW, and a thermal station in Winnipeg with a 50,000 kW capacity. A central steam heating plant supplying steam to a part of downtown Winnipeg is operated in conjunction with the thermal plant. About 50 per cent of Winnipeg Hydro's energy requirements are purchased from Manitoba Hydro.

There are about 76,000 km of transmission and distribution lines in Manitob Hydro's electrical network, including interconnections with Saskatchewan, Ontaric and the United States.

NATURALGAS

The natural gas used in Manitoba comes from Alberta and satisfies one-third of Manitoba's total energy requirements. The gas is distributed within the province by three companies: Greater Winnipeg Gas Company, serving Winnipeg and environs; Inter-City Gas Limited, serving communities along the Trans-Canada highway and Dauphin and district, in the Parklands; and Plains-Western Gas (Manitoba) Ltd., serving Brandon and southern communities such as Winkler and Emerson.

In 1981, natural gas sales were about 1.70 billion cubic metres, of which about 588 million were for residential use, 607 million for commercial use and 503 million for in dustrial requirements.

MANTHACTERIA

Manufacturing is an important sector of the Manitoba economy in its contribution to provincial production and in number of jobs generated. About 1,605 establishments are engaged in manufacturing, accounting for nearly 14 per cent of total provincial employment, in 1981 they employed 65,000 people and produced goods valued at approximately \$4.86 billion. Average annual earnings per person employed in manufacturing in 1981 were \$15,800.

Although the Selkirk settlers in the early 19th century supplied some of their need through fledgling "factories," the first large-scale manufacturing operations is Manitoba developed about 1900 As meat packing plants, clothing factories, lumbe mills, metal-working shops, and machine shops were built—chiefly in Winnipeg—t supply demand from all over Western Canada. Today manufacturing in Manitoba is widely diversified. Most major industries are represented in production, and there are strong supply and processing links with agriculture in the province and with the grow ing, resource-based economies of the other Western provinces. The most important in dustries are food and beverages, machinery, primary metal and metal fabricating

transportation equipment, and clothing, which together produce about two-thirds of all manufacturing output and employment in Manitoba. Winnipeg establishments produce about 77 per cent of provincial manufacturing shipments and Brandon establishments four per cent.

Servic domesi pr the \bigcup engineering Two. both outside F exported 100 markets geared aircraft S itoba is output **1**0 sent equipment, clothing. Manitob S. cent cent II. per and 10 per sector 48 per agricultural equipment, another acturing a, de

ESTIMATED VALUE OF MANITOBA FACTORY (MANUFACTURING) SHIPMENTS

(Millions of Dollars)

		1978(2)	1979(3)	1980(3)	1981(3
Food and Beverage	988	1,094	1,277	1,401	1505
ler		27	32	34	39
es:		23	27	32	39
ng Mills		11	20	23	25
ing		189	216	760	292
		66	103	101	121
ture and Fixtures		71	68	8	101
ng and Publishing		153	172	211	228
ıry Metals		143	192	187	213
s Fabricating		263	307	334	396
hinery		237	324	380	452
portation Equipment		202	264	314	376
ical Products		102	116	138	156
Metallic Minerals		137	139	115	127
Chemical and Chemical Products	8	94	108	105	125
Miscellaneous Manufacturing	28	2	34	36	45
TOTAL ALL INDUSTRIES	2,817	3,278	3,867	4.299	4.860

Sources: Statistics Canada catalogue 31-001 and Department of Economic Development estimates.

⁽¹⁾ Tobacco, Rubber and Plastic Products, Paper and Allied, and Petroleum and Coa, Products Industries have not been published due to confidentiality.

⁽²⁾ Manufacruing Industries of Canada, national and provincial areas 31-203.

⁽³⁾ Inventories, Shipments, and Orders in Manufacturing Industries. 31-00